

VASIL'KEVICH, I., inzh.

Transistorized amplitude detectors. Radio no.1:49-50, 52
Ja '64. (MIRA 17:8)

VASIL'KEVICH, I., inzh.

Tuned amplifiers. Radio no.2:27-29 F '64.

(MIRA 17:3)

VASIL'KOVICH, I., Inzh.

Automatic gain control systems using transistors. Radio no. 71
34-35, 38 Ap '64. (MIRA 17:9)

VASIL'KEVICH, I., inzh.; BUDENNYI, A., inzh.

Design of a transistor self-oscillator. Radio no. 7:40-42

'61.
(MIRA 18:1)

VASIL'KEVICH, I., inzh.

Calculation of transistor receiver heterodynes. Radio no. 12:32-33
D '64. (MIRA 18:3)

VASIL'KEVICH, I., inzh.

Self-oscillators with increased stability. Radio no.10:27-29
0 '65. (MIRA 18:12)

PRIB, O.A.; VASIL'KEVICH, I.M.; GALIBEY, V.I.

Synthesis of esters of 4-chlorobenzenesulfonic acid. Ukr. khim.
zhur. 26 no.6:750-752 '60. (MIRA 14:1)

1. L'vovskiy gosudarstvennyy universitet.
(Benzenesulfonic acid)

KUCHER, R.V.; KOVBUZ, M.A.; BUGROVA, E.M.; VASIL'KEVICH, I.M.

Liquid phase oxidation of isopropylbenzene at high pressure. Zhur.
prikl.khim. 35 no.1:170-176 Ja '62. (MIRA 15:1)

1. L'vovskiy gosudarstvennyy universitet imeni I.Franko.
(Cumene) (Oxidation)

VECHER, A.S.; VASIL'KEVICH, O.K.

Rapid method for the refractometric determination of native proteins
in vegetable juices. Dokl. AN BSSR 7 no.7:481-484 J1 '63.
(MIRA 16:10)

1. Institut biologii AN BSSR.

VASIL'KO, M.

VASIL'KO, M.

Day sanatorium for school children. Zdorov'e 3 no.10:21-22 0 '57.
(CHILDREN--HOSPITALS AND ASYLUMS) (MIRA 10:11)

VASIL'KOY. A., inzh.

Drawing up general plans for collective-farm villages. Sel'.
stroi. 14 no.5:7-8 My '59. (MIBA 12:8)
(Kalinin Province--City plaming)

VASIL'KOV, A.G.; KRAKOVICH, A.A.;

[Planning and standardization of material resources in the construction industry; experience of the Main Construction Administration of the Executive Committee of the Leningrad City Soviet of Workers' Deputies] Planirovanie i normirovanie material'nykh resursov v stroitel'noi organizatsii; opyt Glavleningradstroia. Leningrad, Stroiizdat, 1964. 74 p. (MIRA 17:10)

VASIL'KOV, A. N.

124-11-13591

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 176 (USSR)

AUTHOR: Vasil'kov, A. N.

TITLE: On the Strength of Concrete and Other Stony Materials
(O prochnosti betonov i drugikh kamennykh materialov)

PERIODICAL: Nauch. tr. Kazan. in-ta inzhenerov-stroit. neft. prom-sti, 1954,
Nr 2, pp 3-70

ABSTRACT: Starting from the assumption that, in dispersive materials, destructive slippage is accompanied by cracks, the Author reaches the conclusion that the so-called "slippage plane" is in reality a surface consisting of separate steps - or a "serration" - wherein along the one set of surfaces slippage occurs and along the other set of "risers" detachment takes place. Formulas are obtained for the determination of the prismic and cubic strength of concrete under compression, the pure shearing strength, and the strength conditions of concrete and stony materials under compound stress conditions

Card 1/2

$$\sigma_1 > \sigma_2 = \sigma_3 \quad |\sigma_3| > |\sigma_1| = |\sigma_2|$$

124-11-1359i

On the Strength of Concrete and Other Stony Materials (Continued)

A graphic method and a mechanical testing device are evolved for the determination of the limiting σ . The results obtained from computations are substantiated by numerous experimental data obtained from various authors and are illustrated by thorough-going numerical examples (concrete) in a retainer ring, masonry with oblique reinforcing armature, etc. }

(G. S. Grigoryan)

Card 2/2

124-57-1-1339

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 184 (USSR)

AUTHOR: Vasil'kov, A. N.

TITLE: ~~On the Strength of Materials in the Presence of a Compound Stressed State~~
On the Strength of Materials in the Presence of a Compound Stressed State (O prochnosti materialov v usloviyakh slozhnogo napryazhennogo sostoyaniya)

PERIODICAL: Nauch. tr. Kazansk. in-ta inzh. -stroit. nef. prom-sti, 1955, Nr 3, pp 73-108

ABSTRACT: An investigation of the strength of concretes, stones, and other materials under compound stresses. Starting from the hypothesis that at the moment of fracture the surface cracks are exposed not only to shearing stresses (as postulated by Mohr's theory) but also to tensile stresses, the author employs a set of mechanical interpretations to obtain formulas for the determination of the mechanical characteristics of fractures without using any experimental data, which are indispensable for the construction of Mohr's limit curves. Formulas are provided for the determination of the angles of inclination of the surface fractures and of the magnitudes of the shearing and normal stresses. The effect of the mean normal stress on the strength and the change

Card 1/2

124-57-1-1339

On the Strength of Materials in the Presence of a Compound (cont.)

of Poisson's ratio is analyzed. Calculated results are compared with experimental data.

1. Concrete--Stress analysis
2. Stones--Stress analysis
3. Materials--Stress analysis

M. A. Zedoyan

Card 2/2

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 154 (USSR) SOV/124-57-4-5048

AUTHOR: Vasil'kov, A. N.

TITLE: Limiting Curves for the Calculation of the Strength of Materials Under Compound Stress Conditions (Predel'nyye krivyye dlya raschetov prochnosti materialov v usloviyakh slozhnogo napryazhennogo sostoyaniya)

PERIODICAL: Nauch. tr. Kazansk. in-ta inzh.-stroit. nef. prom-sti, 1956, Nr 4, pp 101-111

ABSTRACT: Bibliographic entry

Card 1/1

VASIL'KOV, A. N.

124-58-9-10587

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 162 (USSR)

AUTHOR: Vasil'kov, A. N.

TITLE: The Tensile Strength of Materials Subjected to Omnilateral Compression (Prochnost' materialov na rastyazheniye pri vsestoronnem szhatii)

PERIODICAL: Nauchn. tr. Kazansk. in-ta inzh. -stroit. nefl. prom-sti, 1957, Nr 5, pp 24-34

ABSTRACT: Bibliographic entry

1. Materials--Tensile properties 2. Materials--Test methods

Card 1/1

VASIL'KOV, A. N.

124-58-9-10586

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 162 (USSR)

AUTHOR: Vasil'kov, A. N.

TITLE: The Strength of "Brittle" Materials Relative to Tensile Stresses
(Prochnost' "khrupkikh" materialov v oblasti rastyagivayushchikh napryazheniy)

PERIODICAL: Nauchn. tr. Kazansk. in-ta inzh. -stroit. nef. prom-sti,
1957, Nr 5, pp 69-74.

ABSTRACT: Bibliographic entry

1. Materials--Mechanical properties 2. Materials--Tensile properties

Card 1/1

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 146 (USSR) SOV/124-58-10-11774

AUTHOR: Vasil'kov, A. N.

TITLE: On the Calculation of the Transverse Forces in Reinforced Concrete Structures Operating Under Flexure (O raschete izgibayemykh zhelezobetonnykh konstruksiy na deystviye poperechnykh sil)

PERIODICAL: Nauchn. tr. Kazansk. in-ta inzh. -stroit. neft. prom.-sti. 1957. Nr 5, pp 152-169

ABSTRACT: A method is presented whereby the strength of reinforced-concrete elements may be computed by taking into account the normal and tangential stresses present in their transverse sections. The method is based upon the author's theory on the strength of "brittle" materials. Auxiliary graphs and computational examples are given.

A. D. Pospelov

Card 1/1

VASIL'KOV, A.V.

A horizontal indicator with a light signal. Izv.tekh. no.5:
45 8-0 '55. (MLRA 9:1)

(Level (Tool))

VASIL'KOV, B., kand.tekhn.nauk

Precast reinforced concrete shells. Na stroi. Ros. no.5:31-
32: My '61. (Roofs, Shell) (MIRA 14:7)

KHIZHNYAK, P.D., glavnyy red.; GLAZOV, G.A., zam.glavnogo red.; BLYUMBERG, V.A., red.; VASIL'KOV, B.A., red.; GLUSHKOV, A.T., red.; ZHOLOBOV, V.V., red.; KAMNEV, P.V., red.; KANTIYEV, N.M., red.; KISELEV, M.I., red.; KOSTYGOV, I.N., red.; MOISEYEV, A.A.; red.; NOVIKOV, A.P., red.; SIMIN, S.A., red.; CHERNYSHEV, P.S., red.; SHAGURIN, K.A., red.; SHUB, I.Ye., red.; DEMENT'YEVA, I.K., red.; SEMENOVA, A.V., tekhn.red.

[Experience of mechanical engineers; technical information publication] Opyt mashinostroitelei; informatsionno-tekhnicheskii sbornik. Leningrad, Sovet nar.khoz.Leningr.ekon.administrativnogo raiona. TSentr.biuro tekhn.informatsii, 1960. 88 p.

(Mechanical engineering)

(MIRA 13:11)

RJ AM

VASILKOY (B. P.). K SISTEMATICHESKOY OCHERKOVKE *Boletus versipellis* Fr. [The systematic position of *Boletus versipellis* Fr.]—*Sovetsk. Bot.* [Soviet Bot.], 1944, 2, pp. 21-27, 1944.

The author considers the mycorrhizal fungi *Boletus aurantiacus*, *B. rufescens*, *B. ericetorum*, and *B. arcticus* [R.A.M., xx, p. 547], commonly found in Russia, to be forms of *B. versipellis*, whilst another fungus found in a plantation of birch and pine, with aspen undergrowth, was similar to, but distinct from *B. versipellis*, and is described as *B. (Krombholzia) peroxidans* n. sp. At first glance it might be taken for an albino form of *B. versipellis*, but the black-brown discoloration

on compression of the pileus and stipe, the yellow-white pores, and the thick, large, rough scales on the stipe are foreign to that species.

VASIL'KOV, B. P.

VASIL'KOV, B. P., Key to the Edible and Poisonous Fungi of the Central Area of the European Part of U.S.S.R., Publishing House of the Academy of Science USSR, Moscow, 1948, 134 pp. 464.5 V44

SO: SITA SI-90-53, 15 Dec. 1953

VASIL'KOV, B. P.

"On the Tea Fungus (*Medusomyces gisevi*)," Priroda, vol. 39, no.
7. 1950, pp. 59-60. 410 P933

So: SIRA S1+90-53, 15 Dec 1953

1. VASIL'KOV, B.P.
2. USSR (600)
4. Mushrooms
7. The steppe morel, *Morchella steppicola* Zerova. Bot. mat. Otd. spor. rast. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

VASIL'KOV, B. I.

Lebedeva, L. A.

"Handbook of pileate mushrooms." Prof. L. A. Lebedeva. Reviewed by B. I. Vasil'kov.
Bot. zhur. 37 no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

VASIL'KOV, B.P.; SAVICH, V.P., zasluzhennyi deyatel' nauki, professor, redaktor.

[Study of mushrooms in the U.S.S.R.; historical and bibliographical sketch] Izuchenie shliapochnykh gribov v SSSR; istoriko-bibliograficheskiĭ ocherk. Moskva, Izd-vo Akademii nauk SSSR, 1953. 191 p.

(MLRA 7:3)

(Mushrooms) (Bibliography--Mushrooms) (Mushrooms--Bibliography)

VASIL'KOV, B.P.

Some new and interesting species of Gasteromycetes in the U.S.S.R.
Trudy Bot. instr. Ser. 2 no.9:447-464 '54. (MLRA 7:11)
(Gasteromycetes)

VASIL'KOV, B. P.

USSR/Miscellaneous

Card 1/1

Author : Vasil'kov, B. P.

Title : Methods of gathering edible mushroom

Periodical : Priroda, 5, 126 - 128, May 1954

Abstract : The question is frequently asked on how should edible mushrooms be gathered in the forest in order not to reduce their amount and not to destroy the mushroom sources. In answer to such questions the author recommends reading of several books dealing in the subject of mushroom gathering.

Institution :

Submitted :

VASIL'KOV, B.P.

Terminology in writings on mycorhiza. Mikrobiologiya 23 no.2:195-
196 Mr-Ap '54. (MLRA 7:4)
(Mycorhiza)

VASIL'KOV, B.P.

VASIL'KOV, B.P.

Some discrepancies in international mycological nomenclature.
Bot.zhur. 39 no.2:257-262 Mx-Ap '54. (MLRA 7:6)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR,
Leningrad.
(Fungi) (Botany--Nomenclature)

VASIL'KOV, B. I.

VASIL'KOV, B.P.

"Edible and poisonous mushrooms, toxic effects of mushrooms, and their prophylaxis." N.I.Orlov. Reviewed by B.P.Vasil'kov. Bot.shur. 39 no.2:274-277 Mr-Apr '54. (MLRA 7:6)
(Mushrooms) (Orlov, N.I.)

VASIL'KOV, B.P.

Results of a study of *Krombholzia aurantica* (Rogues) Gilb. as a representative species of the pileate fungi. Bot.zhur. 39 no.5: 681-693 S-0 '54. (MIRA 7:11)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, Leningrad.
(Basidiomycetes)

VASIL'KOV, B.P.

Erroneous establishment of the genus *Jaczewskia* Matt. Bot.zhur.40
no.4:596-598 J1-Ag'55. (MIRA 8:11)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR,
Leningrad
(Gasteromycetes) (Botany--Nomenclature)

VASIL'KOV, B.P.

New species of the family Boletaceae found in the U.S.S.R.
(Species Boletacearum novae in URSS inventae). Bot.mat.Otd.
spor.rast. 10:209-213 Ja '55. (MIRA 8:7)
(Basidiomycetes)

VASIL'KOV, B.P.

The mushroom *Krombholzia scabra* (Fr.) Karst. in the U.S.S.R. Trudy
Bot. inst. Ser. 2 no. 10: 367-384 '56. (MLBA 10:2)
(Mushrooms)

VASIL'KOV, B.P.

Taxonomic relations of fungi of the genus *Scleroderma* Pers. Trudy
Bot. inst. Ser. 2 no. 11: 53-74 '56. (MLBA 10:2)
(Basidiomycetes)

VASIL'KOV, B.P.

Systematical survey of the aspen mushroom *Krombholzia aurantiaca*
(Broques) Gilb. and its forms found in the U.S.S.R. Bot.mat.Otd.
spor,rast. 11:134-140 Ja '56. (MLRA 9:11)
(Basidiomycetes)

VASIL'KOV, B.P.

Sepedonium tulasneanum Sacc. em. Vassilk., parasitic on the mushroom
Boletus edulis Fr. in the U.S.S.R. Bot. zhur. 41 no. 10: 1519-1520 0 '56.
(MLRA 10:1)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR,
Leningrad.

(Caucasus--Fungi, Phytopathogenic) (Mushrooms--Diseases and
pests)

VASIL'KOV, B.P.

Helvella sphaerospora (Peck) Imai. Bot.mat.Otd.spor.rast.
12:228-230 Ja '59. (MIRA 12:12)
(Mari A.S.S.R.--ASCOMYCETES)

VASIL'KOV, B.P.

"Flora of Czechoslovakia," Series B (Mycologico-lichenological),
vol.1: Gasteromycetes [in Czech]. Reviewed by B.P. Vasil'kov.
Bot.zhur. 44 no.9:1358-1359 S '59. (MIRA 13:2)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR, Leningrad.
(Czechoslovakia--Gasteromycetes)

VASIL'KOV, B.P.

[Mushrooms] Griby. Moskva, Izd-vo M-va sel'.khoz.SSSR. 1959.
95 p. col.illus. (MIRA 15:3)
(Mushrooms)

VASIL'KOV, B.P.

"Flora of Czechoslovakia," Series B (Mycologico-lichenological),
vol.1: Gasteromycetes [in Czech]. Reviewed by B.P. Vasil'kov.
Bot.zhur. 44 no.9:1358-1359 S '59. (MIRA 13:2)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR, Leningrad.
(Czechoslovakia--Gasteromycetes)

VASIL'KOV, B.P.

A new fungus species of the family Boletaceae hitherto unknown in
China. Bot.zhur. 44 no.10:1479-1480 0 '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,
Leningrad.

(Yunnan Province--Basidiomycetes)

VASIL'KOY, B.P. [Vasyl'kov, B.P.]

Regarding P.IE.Sosin's article "Morphological features of Gasteromycetes from the point of view of their adaptability" from the "Botanicheskii zhurnal," no.1, 1959, pp.9-18. Ukr.bot.zhur. 17 no.1:115-117 '60.
(MIRA 13:6)

(Gasteromycetes)
(Sosin, P.IE.)

VASIL'KOV, B.P.

Hymenomyces in P.N.Golovin's article "Fungi of the Kara Kum."
Uzb.biol.zhur. no.2:66-68 '60. (MIRA 1:5)
(KARA KUM--FUNGI) (GOLOVIN, P.N.)

VASIL'KOV, B.P.

Notes on botanical nomenclature in the works of mycologists. Bot.
zhur. 45 no.9:1366-1372 S '60. (MIRA 13:9)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR,
Leningrad.

(Botany--Nomenclature)

VASIL'KOV, B.P.

Poisoning by *Hypholoma fasciculare* (Fr.) Quel. Bot. zhur. 46
no.4:581-583 Ap '61. (MIRA 14:3)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,
Leningrad.

(Fungi, Poisonous)

VASIL'KOV, B.P.

How new fungus species should not be described. Biol. MOIP. Otd.
biol. 66 no.3:93-100 My-Je '61. (MIRA 14:6)
(FUNGI)

VASIL'KOV, B.P.

Reply to the reviewer. Bot. zhur. 46 no.8:1213-1217 Ag '61.
(MIRA 15:1)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.
(Fungi)

VASIL'KOV, B.P.

Proposals for the unification of the description of new species.
Bot. zhur. 46 no.11:1663-1666 N '61. (MIRA 15:2)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Botany--Nomenclature)

VASIL'KOV, B.P.

Mushroom yields and weather. Bot.zhur. 47 no.2:258-262 F '62.
(MIRA 15:3)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.
(Mushrooms, Edible)

VASIL'KOV, B.P.

"Hydnaceae" by T.L.Nikolaeva. Reviewed by B.P.Vasil'kov.
Bot.zhur. 47 no.4:581-583 Ap '62. (MIRA 15:8)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.
(Hydnaceae) (Nikolaeva, T.L.)

VASIL'KOV, B.P.

Three species of hypogeous fungi from the foothills of the Crimea.
Bot. mat. Otd. spor. rast. 16:109-112 '63.

Change of the name of the fungus *Arthrocladiella lycii*. 112-113.
(MIRA 16:10)

BOBROV, Ye.G.; BONDARTSEV, A.S.; BORISOVA, A.G.; VASIL'KOV, B.P.;
VASIL'CHENKO, I.T.; GOLUBKOVA, V.F.; GRUDZINSKAYA, I.A.;
YEGOROVA, T.V.; ZINOVA, A.D.; IVANINA, L.I.; LEONOVA, T.G.;
MATSENKO, A.Ye.; PIDOTTI, O.I.; POBEDIMOVA, Ye.G.; POLYAKOV,
P.P.; POYARKOVA, A.I.; SAVICH, V.P.; SIN'KOVA, G.M.; SMIRNOVA,
Z.N.; SMOL'YANINOVA, L.A.; FEDOROV, Al.A.; KHARADZE, A.L.;
TSVELEV, N.N.; SHISHKIN, B.K. [deceased]; PEN'KOVA, G.A., red.;
BARANOVA, L.G., tekhn. red.; FRIDMAN, Z.L., tekhn. red.

[Botanical atlas] Botanicheskii atlas. Moskva, Sel'khozizdat,
1963. 501 p. (MIRA 16:12)

1. Chlen-korrespondent AN SSSR (for Shishkin).
(Botany—Atlases)

VASIL'KOV, Boris Pavlovich, kand. biol. nauk; GAVRILOV, I.S., red.;
PRESNOVA, V.A., tekhn. red.

[Edible and poisonous mushrooms] S"edobnye i iadovitye
griby. Leningrad, Lenizdat, 1963. 44 p. (MIRA 16:9)
(Mushrooms)

VASIL'KOV, B.P.

Intraspecific taxons as exemplified by the study of the mushroom
Boletus edulis Fr. Bot. zhur. 50 no.12:1665-1672 D '65.

(MIRA 19:2)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

SAVICH, V.P., otv. red.; ABRAMOV, I.I., red.; VASIL'KOV, B.P.,
red.; GOLLERBAKH, M.M., red.; LITVINOV, M.A., red.

[New materials on the taxonomy of lower plants. 1965]
Novosti sistematiki nizshikh rastenii 1965. Moskva,
Nauka, 1965. 299 p. (MIRA 18:8)

1. Akademiya nauk SSSR. Botanicheskiy institut.

[Faint handwritten notes and a horizontal line are visible in the upper left quadrant of the page.]

MAZEL', A.G., kandidat tekhnicheskikh nauk; VASIL'KOV, B.P.

Automatic flux techniques used fro welding rusty metals. Trudy
VNIISTROINEFT' no.7:5-14 '56. (MLRA 9:11)
(Electric welding)
(Corrosion and anticorrosives)

LOSHAKOV, A.M., inzh.; BIEIKOV, A.V., inzh.; VASIL'KOV, B.P.; GORYASHCHENKO,
Yu.N.

Welding flanges to pipes simultaneously with two welds. Svar.
proizv. no.3:31-32 Mr '65. (MIRA 18:5)

1. Trest "TSentroenergomontazh".

VASIL'KOV, B.S. (Moskva)

Designing short cylindrical shell roofs taking into account their
fracturing. Stroi. mekh. 1 rasch. soor. 2 no.6:1-6 '60.

(MIRA 13:12)

(Roofs, Shell)

VASIL'KOV, B.S. (Moskva)

Calculation of folded systems and shells. Inzh.zhur. 1
no.4:123-131 '61. (MIRA 15:4)
(Elastic plates and shells)

VASIL'KOV, B.S., kand.tekhn. nauk; BORODINA, I.S., red.izd-vá;
SHERSTNEVA, N.V., tekhn. red.

[Calculations for shells with asymmetrical contour] Raschet
obolochek s nesimmetrichnym konturom. Moskva, Gosstroizdat,
1962. 122 p. (MIRA 16:3)
(Elastic plates and shells)

VASIL'KOV, B. S. (Moskva)

Design of ribbed shells and plates with variable thickness.
Inzh. zhur. 2 no.4:321-329 '62. (MIRA 16:1)

(Elastic plates and shells)

VASIL'KOV, B.S., kand. tekhn. nauk

Experimental and theoretical study of precast reinforced
concrete shell models with double curvature. Bet. 1 zhel.-
bet. 9 no.11:512-516 N '63. (MIRA 17:1)

ACCESSION NR: APL043533

S/0258/64/004/003/0566/0570

AUTHOR: Vasil'kov, B. S. (Moscow); Minayev, L. S. (Moscow)

TITLE: On the stability of flat shells with double curvature on a rectangular surface

SOURCE: Inzhenernyy zhurnal, v. 4, no. 3, 1964, 566-570

TOPIC TAGS: flat shell, Gaussian curvature, instability, critical load, minimum load, local stability, stress function, trigonometric series, Galerkin method

ABSTRACT: On the basis of V. Z. Vlasov's (Obshchaya teoriya obolochek i yeye prilozheniya v tekhnike. Gostekhizdat, 1949) theory of flat shells with linear arrangement, the stability of shells with positive Gaussian curvature was studied. Deflection at the moment instability sets in is represented by $w = f \sin(m\pi x/a) \sin(n\pi y/b)$ where the critical load is defined by means of a particular value of m and n for a minimum load. The equations of local stability are written

$$\frac{1}{Eh} \nabla^4 w + \left(k_1 \frac{\partial^2 w}{\partial y^2} + k_2 \frac{\partial^2 w}{\partial x^2} \right) = 0,$$

$$D \nabla^4 w - \left(k_1 \frac{\partial^2 w}{\partial y^2} + k_2 \frac{\partial^2 w}{\partial x^2} \right) + N_1^0 \frac{\partial^2 w}{\partial x^2} + 2S^0 \frac{\partial^2 w}{\partial x \partial y} + N_2^0 \frac{\partial^2 w}{\partial y^2} = 0,$$

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where φ - stress function, N_1^0, N_2^0, S^0 - normal and shear loads. φ and w are represented as products of functions, or $\varphi(x; y) = AU(x)V(y)$, $w(x; y) = BX(x)Y(y)$, and the loads expanded in double trigonometric series, for example,

$$q_1^0 = \frac{16a^2}{\pi^2 b^2} \sum_{k=1}^{\infty} \sum_{j=1}^{\infty} \frac{1}{l(k_1^2 + k_2^2 \gamma^2)} \sin \frac{j\pi x}{a} \sin \frac{j\pi y}{b}$$

Galerkin's variational method is employed, which subsequently leads to an expression for the load q expressed by

$$q = \frac{\pi^2 E k^2 (k_2 \gamma^2 + k_1 \gamma) (m^2 \gamma^2 + n^2 \gamma)^2 (m^2 - 0.25) (n^2 - 0.25)}{768 (1 - \mu^2) a b m^2 n^2 (m^2 + n^2 - 0.5)} + \frac{\pi^2 E k a b (k_2 \gamma^2 + k_1 \gamma) (k_2 m^2 \gamma^2 + k_1 n^2 \gamma)^2 (m^2 - 0.25) (n^2 - 0.25)}{64 (m^2 \gamma^2 + n^2 \gamma)^2 m^2 n^2 (m^2 + n^2 - 0.5)}$$

The critical load is then determined for two special cases: 1) $n = 1, m^2 \gg 1$ or $m = 1$ and $n^2 \gg 1$, and 2) $m \geq 2, n \geq 2$. The first gives for $q_1^0, q_2^0 = 0.75 k_2 \gamma^2 (k_2 \gamma^2 + k_1 \gamma)$, $q_2^0 = 0.75 k_1 \gamma (k_2 \gamma^2 + k_1 \gamma)$, where $q^0 = \frac{64 \sqrt{3} (1 - \mu^2)}{\pi^2 E k^2} q$. The second case leads to similar results but at a higher value of q (critical) than the former case. Orig. art. has: 31 equations.

ASSOCIATION: none

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(MIRA 13:2)

(Electron microscopy)
(Particle size determination)

VASIL'KOV, E. V.

86-9-31/36

AUTHOR: Vasil'kov, E.V., Capt., Military pilot First Class
TITLE: Letter to a Friend. (Pis'mo tovarishchu)
PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 9, p.85 (USSR)
ABSTRACT: A letter of congratulations addressed by Capt Vasil'kov to his old friend test-pilot V. P. Vasin.
AVAILABLE: Library of Congress
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ANNENKOV, A.V., polkovnik.; VASIL'KOV, F.P., polkovnik.; DEPTYAREV, N.F., polkovnik.; YEGOROV, G.E., polkovnik.; SAFRONOV, A.A., polkovnik.; SOFONOV, S.S., polkovnik.; KHARITONOV, P.N., polkovnik.; SHERSTOBITOV, Ye.P., polkovnik.; GORBATYUK, G.M., podpolkovnik.; SARAFANOV, I.A., podpolkovnik.; VASILEVSKIY, D.V., general-mayer, otv. red.; DUKACHEVA, M.P., polpolkovnik, red.; SOKOLOVA, G.F., tekhn. red.

[Battle operations of a rifle regiment; a collection of war experiences] Boevye deistviia strelkovogo polka; sbornik boevykh primerov. Moskva, Voen. izd-vo M-va ober. SSSR, 1958. 278 p. 32 maps. (MIRA 11:11)

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Bachelor of Tech. Sci.

"Determination of Airplane Position by Radio Aids," Vest. Vozd. Flota, No.11,
Nov.,1954.

Summary of article D 256361, 3 Jun 55

YADIK'KOV, G

AID P - 756

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 2/15

Author : Vasil'kov, G , Lt. Col., Dotsent, Kand. of Tech. Sci.

Title : Determination of the aircraft position by radio-technical means

Periodical : Vest. vozd. flota, 11

Abstract : The author describes the determination of navigational elements (drift, ground speed), and of the position of an aircraft in complicated weather conditions with the help of panoramic radio location stations. Several examples are given. Diagrams, formulae, tables.

Institution : None

Submitted : No date

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'59. (MIRA 12:10)

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MAMADZHANOV, I.; MOLDAKAYEV, Zh.; LAVRENT'YEV, M.; KHERUVIMOV, V.P.;
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